

Course title: **Advanced Biochemistry**

Credits /Duration (days)

15 hp, week 35-50 (half pace)

Description

The course consists of independent theoretical study with follow up seminar presentations at regular intervals. Active participation in the seminars is obligatory. Each participant shall also carry out a group project as well as an individual literature project.

Learning Outcomes

- explain structure-function relationships of biomolecules
- explain and discuss complex relationships within and between biochemical processes such as flow of genetic information, energy metabolism and signal transduction
- based on current primary literature discuss and present relevant biochemical research

Contents

Expression of the genome in terms of structure and function as well as time and space. Biomolecules and their transformation conversion of energy and matter, catalysis and regulation of biochemical reactions, signal transduction, and the mediation of information. Evolution of proteins and nucleic acids.

The course addresses both practical and theoretical aspects of current biochemical research. Communication training with feed-back.

Examination

An oral examination is given at the end of the course (10 credits). The group project is examined in written form and the individual project is examined both orally and in written form. The projects correspond to 5 credits.

Literature

Current comprehensive text book in Biochemistry. E.g. Nelson & Cox, Lehninger – Principles of Biochemistry, 6th Ed. Freeman.

Teaching Staff

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Contact

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